

CLAIMS

What is claimed is:

- 1 1. A power system for powering a vehicle comprising at least one fan
2 unit and at least one electric alternator associated with the at least one fan unit,
3 wherein:
 - 4 a) the at least one fan unit comprises a central axis and at least one
5 fan blade;
 - 6 b) the at least one fan blade extends axially from and spans
7 substantially the length of the central axis; and
 - 8 c) the at least one fan unit is mounted on the vehicle laterally across at
9 least a portion of the vehicle.
- 1 2. The system as claimed in Claim 1, further comprising at least two
2 fan units.
- 1 3. The system as claimed in Claim 1, wherein the system powers the
2 electrical systems of the vehicle.
- 1 4. The system as claimed in Claim 1, further comprising at least two
2 electric alternators associated with each of the fan units.
- 1 5. The system as claimed in Claim 2, wherein the at least two fan units
2 are positioned one behind the other.
- 1 6. The system as claimed in Claim 5, wherein the at least two fan units
2 are located in the same horizontal plane.
- 1 7. The system as claimed in Claim 5, wherein the at least two fan units
2 are located in different horizontal planes.
- 1 8. The system as claimed in Claim 7, wherein the at least two fan units
2 are located in the same sloped plane.
- 1 9. The system as claimed in Claim 8, wherein the sloped plane slopes
2 upwards from the front of the vehicle to the back of the vehicle.
- 1 10. The system as claimed in Claim 1, wherein each fan unit further
2 comprises at least three fan blades.

1 11. The system as claimed in Claim 10, wherein the fan blades are
2 concave.

1 12. The system as claimed in Claim 10, wherein the fan blades are
2 curved at the ends.

1 13. The system as claimed in Claim 1, wherein the central axis is
2 perpendicular to a centerline extending from the front of the vehicle to the back of
3 the vehicle.

1 14. The system as claimed in Claim 13, wherein the fan unit comprises
2 a plurality of fan blades and fewer than the plurality of fan blades are contacted by
3 a driving force at any given time and position.

1 15. The system as claimed in Claim 14, wherein the driving force is
2 selected from the group consisting of airflow and waterflow.

1 16. A combination of an at least partially electrically powered vehicle
2 and a power system for powering the vehicle, the power system comprising at
3 least one fan unit and at least one electric alternator associated with the at least
4 one fan unit, wherein:

5 a) the at least one fan unit comprises a central axis and at least one
6 fan blade;

7 b) the at least one fan blade extends axially from and spans
8 substantially the length of the central axis; and

9 c) the at least one fan unit is mounted on the vehicle laterally across at
10 least a portion of the vehicle.

1 17. The combination as claimed in Claim 16, wherein the power system
2 further comprises at least two fan units.

1 18. The combination as claimed in Claim 16, wherein the power system
2 powers the electrical systems of the vehicle.

1 19. The combination as claimed in Claim 16, wherein the power system
2 further comprises at least two electric alternators associated with each of the fan
3 units.

1 20. The combination as claimed in Claim 17, wherein the power system
2 further comprises at least two fan units are position one behind the other.

1 21. The combination as claimed in Claim 20, wherein the at least two
2 fan units are located in the same horizontal plane.

1 22. The combination as claimed in Claim 20, wherein the at least two
2 fan units are located in different horizontal planes.

1 23. The combination as claimed in Claim 22, wherein the at least two
2 fan units are located in the same sloped plane.

1 24. The combination as claimed in Claim 23, wherein the sloped plane
2 slopes upwards from the front of the vehicle to the back of the vehicle.

1 25. The combination as claimed in Claim 16, wherein each fan unit
2 further comprises at least three fan blades.

1 26. The combination as claimed in Claim 16, wherein the vehicle
2 contains a hybrid gasoline and electrically driven engine.

1 27. The system as claimed in Claim 25, wherein the fan blades are
2 concave.

1 28. The system as claimed in Claim 25, wherein the fan blades are
2 curved at the ends.

1 29. The system as claimed in Claim 16, wherein the central axis of the
2 power system is perpendicular to a centerline extending from the front of the
3 vehicle to the back of the vehicle.

1 30. The system as claimed in Claim 29, wherein the fan unit comprises
2 a plurality of fan blades and fewer than the plurality of fan blades are contacted by
3 a driving force at any given time and position.

1 31. The system as claimed in Claim 30, wherein the driving force is
2 selected from the group consisting of airflow and waterflow.

1 32. A power system for powering a vehicle comprising at least two fan
2 units and two electric alternators associated with each of the at least one fan
3 units, wherein:

4 a) the at least two fan units each comprise a central axis and at least
5 three fan blades;

6 b) the at least three fan blades extend axially from and span
7 substantially the length of the central axis; and

8 c) the at least one fan unit is mounted on the vehicle laterally across at
9 least a portion of the vehicle.

1 33. The system as claimed in Claim 32, wherein the at least two fan
2 units are positioned one behind the other.

1 34. The system as claimed in Claim 33, wherein the at least two fan
2 units are located in the same horizontal plane.

1 35. The system as claimed in Claim 33, wherein the at least two fan
2 units are located in different horizontal planes.

1 36. The system as claimed in Claim 35, wherein the at least two fan
2 units are located in the same sloped plane sloping upwards from the front of the
3 vehicle to the back of the vehicle.

1 37. The system as claimed in Claim 33, wherein the fan blades are
2 concave.

1 38. The system as claimed in Claim 33, wherein the fan blades are
2 curved at the ends.

1 39. The system as claimed in Claim 32, wherein the central axis is
2 perpendicular to a centerline extending from the front of the vehicle to the back of
3 the vehicle.

1 40. The system as claimed in Claim 39, wherein the fan unit comprises
2 a plurality of fan blades and fewer than the plurality of fan blades are contacted by
3 a driving force at any given time and position.

1 41. The system as claimed in Claim 40, wherein the driving force is
2 selected from the group consisting of airflow and waterflow.

1 42. A combination of an at least partially electrically powered vehicle
2 and a power system for powering the vehicle, the power system comprising at
3 least two fan units and two electric alternators associated with each of the at least
4 one fan units, wherein:

5 a) the at least two fan units each comprise a central axis and at least
6 three fan blades;

7 b) the at least three fan blades extend axially from and span
8 substantially the length of the central axis; and

9 c) the at least one fan unit is mounted on the vehicle laterally across at
10 least a portion of the vehicle.

1 43. The combination as claimed in Claim 42, wherein the at least two
2 fan units are positioned one behind the other.

1 44. The combination as claimed in Claim 43, wherein the at least two
2 fan units are located in the same horizontal plane.

1 45. The combination as claimed in Claim 43, wherein the at least two
2 fan units are located in different horizontal planes.

1 46. The combination as claimed in Claim 45, wherein the at least two
2 fan units are located in the same sloped plane sloping upwards from the front of
3 the vehicle to the back of the vehicle.

1 47. The system as claimed in Claim 42, wherein the fan blades are
2 concave.

1 48. The system as claimed in Claim 42, wherein the fan blades are
2 curved at the ends.

1 49. The system as claimed in Claim 42, wherein the central axis is
2 perpendicular to a centerline extending from the front of the vehicle to the back of
3 the vehicle.

1 50. The system as claimed in Claim 49, wherein the fan unit comprises
2 a plurality of fan blades and fewer than the plurality of fan blades are contacted by
3 a driving force at any given time and position.

1 51. The system as claimed in Claim 50, wherein the driving force is
2 selected from the group consisting of airflow and waterflow.